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Compression Connectors

Panduit® Pan-Lug™ Compression Connectors provide permanent terminations for a variety of power and grounding applications, with innovation, highest reliability, and lowest installed cost. Panduit offers the first and only copper compression lugs and splices that meet Network Equipment-Building Systems (NEBS) Level 3 requirements as tested by Telcordia Technologies. NEBS Level 3 assures that product performance is suitable for equipment applications that demand minimal service interruptions over the life span of the equipment.



- Functional product information is marked directly on the connector, facilitating the identification, ordering, and usage of the compression connector
- Color-coded to facilitate quick identification of the proper crimping die
- Made from high strength, high conductivity electrolytic copper and aluminum alloy materials to provide optimum connectivity for power and grounding applications
- UL Listed or Recognized, CSA Certified, ABS Type Approved and tested by Telcordia – meets NEBS Level 3, as noted
- Terminations using Panduit® Pan-Lug™ Compression Connectors are also UL Listed and CSA Certified with specified competitor tools
- Wide assortment of manual, controlled cycle, battery operated hydraulic and pneumatic crimping tools for reliable connections at the lowest installed cost

Panduit® Pan-Lug™ Compression Connectors are designed for use with many different code and flex conductor types and are available in a broad range of styles and sizes including copper one-hole, two-hole, and blank tongue lugs and splices; aluminum one-hole and two-hole lugs and splices; and copper in-line reducing splices. Panduit offers a wide assortment of Pan-Lug™ Power Connectors to meet customer needs and today's application requirements.

Features and Benefits – Pan-Lug™ Compression Connectors

Bolded> features are unique to Panduit.

<h3>Copper Lugs</h3> <p>Color-coded bands for proper die selection and crimp placement</p> <p>Easy-to-read, color-coded die index numbers for Panduit and specified competitor crimping dies for selection</p> <p>Made from seamless, high conductivity copper tubing and electro tin-plated and burnished to inhibit corrosion</p> <p>Internally beveled barrel end for easy conductor insertion (types LCCF and LCAF available with flared entry for flex conductor)</p> <p>Inspection windows available to assure complete conductor insertion</p> <p>Part number, stud size, and conductor size marked on part for easy identification</p> <p>UL LISTED CS CERTIFIED</p>	<h3>Flex Lugs</h3> <p>Color-coded bands for proper die selection and crimp placement</p> <p>Inspection window to assure complete conductor insertion</p> <p>Made from seamless, high conductivity copper tubing and electro tin-plated and burnished to inhibit corrosion</p> <p>Easy-to-read, color-coded die index numbers for Panduit and specified competitor crimping dies for selection</p> <p>Product information marked on part for easy identification</p> <p>Can be used with code conductor and flex conductor class: G, H, I, K, M and Diesel Locomotive</p> <p>UL LISTED CS CERTIFIED</p>
<h3>Narrow Tongue Lugs</h3> <p>Color-coded bands for proper die selection and crimp placement</p> <p>Inspection window to assure complete conductor insertion</p> <p>Easy-to-read, color-coded die index numbers for Panduit and specified competitor crimping dies for selection</p> <p>Made from seamless, high conductivity copper tubing and electro tin-plated and burnished to inhibit corrosion</p> <p>Narrow tongue width for limited space applications</p> <p>Product information marked on part for easy identification</p> <p>UL LISTED CS CERTIFIED</p>	<h3>Copper Metric Lugs</h3> <p>Internally beveled barrel ends for easy conductor insertion</p> <p>Product information marked on part for easy identification</p> <p>Inspection window to assure complete conductor insertion</p> <p>Made from 99.9% pure copper for high quality connection and tin-plated to inhibit corrosion</p> <p>UL LISTED CS CERTIFIED</p>
<h3>Copper Parallel Splice</h3> <p>Chamfered on both ends for fast and easy conductor insertion</p> <p>Made from seamless, high conductivity copper tubing and electro tin-plated and burnished to inhibit corrosion</p> <p>Intuitive part numbering for fast and accurate part selection in the field</p> <p>Industry recognized color-coding for selection</p> <p>Largest part marking in the industry – easier to read in low light conditions</p> <p>UL LISTED CS CERTIFIED</p>	<h3>Aluminum Lugs</h3> <p>Easy-to-read die index numbers for Panduit and specified competitor crimping dies for selection</p> <p>Part number and conductor size marked on part for easy identification</p> <p>Made from seamless wrought aluminum and electro tin-plated to inhibit corrosion</p> <p>Crimping areas marked on part for proper crimp placement</p> <p>Factory pre-filled with oxide inhibitor to prevent oxidation</p> <p>UL LISTED</p>

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Compression connector crimping tools speed installation and reduce total installed cost. Visit www.panduit.com/tools.



Panduit designs and manufactures a full line of labeling products, software and printers to assist you with your labeling requirements. See pages E1.1 – E2.27.







Heat shrink tubing provides an economical and easy way to insulate, protect, harness and color code electrical and electronic components. See pages C2.23 – C2.42.

Selection Guide – Pan-Lug™ Copper Compression Connectors for Copper Code Conductor



Code

Connector	Barrel Style	Type	Page Number
 One-Hole Lugs	Standard Barrel with Inspection Window	LCA	D2.9, D2.10
		LCAN narrow tongue	D2.11, D2.12
	Long Barrel no Inspection Window	LCB	D2.13, D2.14
 Two-Hole Lugs	Standard Barrel with Inspection Window	LCD	D2.15, D2.16, D2.17
		LCDN narrow tongue	D2.18
	Long Barrel no Inspection Window	LCC	D2.19, D2.20
		LCC-W	D2.21, D2.22, D2.23, D2.24
 Butt Splices	Standard Barrel	LCCN-W narrow tongue	D2.25
	Long Barrel	SCS	D2.26
 Parallel Splices		SCL	D2.27
		PSC	D2.28

Part Number System for Pan-Lug™ Compression Lugs

LCD	2/0	—	38	D	F	—	X
Type	Conductor Size		Stud Hole Size	Two Stud Hole Spacing	Tongue Angle		Standard Package Size
example: LCD = Lug, Copper Two-Hole Standard Barrel	2/0 = 2/0 AWG		10 = #10 14 = 1/4" 56 = 5/16" 38 = 3/8" 12 = 1/2" 58 = 5/8" 34 = 3/4" 78 = 7/8" 00 = Blank Tongue 5 = M5 6 = M6 8 = M8 10 = M10 12 = M12 14 = M14 16 = M16 20 = M20	A = 0.625" B = 0.750" C = 0.875" D = 1.0" E = 1.25" G = 1.5" J = 0.5" K = 2" M = 1.375" P = 0.688" Q = 1.125" No Letter = 1.75" or 44.5mm CD = 22.0-25.0mm	H = 45° F = 90° No Letter = Straight		1 = 1 3 = 3 5 = 5 6 = 6 X = 10 E = 20 Q = 25 L = 50 C = 100

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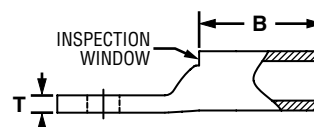
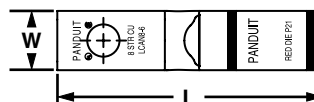


Code Conductor, One-Hole, Standard Barrel with Window, Narrow Tongue Lug

For Use with Stranded Copper Conductors

Type LCAN

- Narrow tongue width for limited space applications
- Color-coded barrels marked with Panduit and specified competitor die index numbers for proper crimp die selection
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- UL Listed and CSA Certified to 35 kV** and temperature rated to 90°C when crimped with Panduit and specified competitor crimping tools and dies
- UL Listed and CSA Certified for wide wire range-taking capability when crimped with Panduit® Uni-Die™ Dieless Crimping Tools‡



Part Number	Copper Conductor Size	Stud Hole Size (In.)	Figure Dimensions (In.)				Panduit Color Code	Panduit Die Index No.‡	Burndy Die Index No.‡	T&B Die Index No.‡	Wire Strip Length (In.)	Std. Pkg. Qty.
			W	B	T	L						
LCAN8-6-L	#8 AWG	#6	0.27	0.56	0.10	1.24	Red	P21	49	21	5/8	50
LCAN6-6-L	#6 AWG	#6	0.31	0.81	0.10	1.51	Blue	P24	7	24	7/8	50
LCAN4-10-L	#4 – #3	#10	0.40	0.81	0.11	1.54	Gray	P29	8	29	7/8	50
LCAN4-14-L	AWG STR, #2 AWG SOL	1/4	0.40	0.81	0.11	1.63	Gray	P29	8	29	7/8	50
LCAN2-10-Q	#2 AWG	#10	0.42	0.88	0.12	1.67	Brown	P33	10	33	15/16	25
LCAN2-14-Q		1/4	0.42	0.88	0.12	1.77	Brown	P33	10	33	15/16	25
LCAN1-10-E	#1 AWG	#10	0.47	0.88	0.11	1.69	Green	P37	11	37	15/16	20
LCAN1-14-E		1/4	0.47	0.88	0.12	1.79	Green	P37	11	37	15/16	20
LCAN1/0-10-X	1/0 AWG	#10	0.52	0.94	0.13	1.78	Pink	P42	12	42	1	10
LCAN1/0-14-X		1/4	0.52	0.94	0.13	1.95	Pink	P42	12	42	1	10
LCAN1/0-56-X		5/16	0.52	0.94	0.13	2.00	Pink	P42	12	42	1	10
LCAN2/0-10-X	2/0 AWG	#10	0.58	0.98	0.13	1.84	Black	P45	13	45	1 1/16	10
LCAN2/0-14-X		1/4	0.58	0.98	0.14	2.09	Black	P45	13	45	1 1/16	10
LCAN2/0-56-X		5/16	0.58	0.98	0.14	2.09	Black	P45	13	45	1 1/16	10
LCAN2/0-38-X		3/8	0.58	0.98	0.13	2.15	Black	P45	13	45	1 1/16	10
LCAN3/0-14-X	3/0 AWG	1/4	0.64	1.14	0.14	2.28	Orange	P50	14	50	1 3/16	10
LCAN3/0-56-X		5/16	0.64	1.14	0.13	2.28	Orange	P50	14	50	1 3/16	10
LCAN3/0-38-X		3/8	0.64	1.14	0.13	2.34	Orange	P50	14	50	1 3/16	10
LCAN4/0-14-X	4/0 AWG	1/4	0.71	1.19	0.14	2.36	Purple	P54	15	54	1 1/4	10
LCAN4/0-56-X		5/16	0.71	1.19	0.14	2.38	Purple	P54	15	54	1 1/4	10
LCAN4/0-38-X		3/8	0.71	1.19	0.15	2.45	Purple	P54	15	54	1 1/4	10

‡Visit www.panduit.com/tools for tool and die information.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.

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